



IPW
PATENT

Case Docket No. GYRO.008A
Application No. 10/823,091

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Roger Ekseth et al.
Appl. No. : 10/823,091
Filed : April 13, 2004
For : SYSTEM AND METHOD FOR
USING MICROGYROS TO
MEASURE THE ORIENTATION
OF A SURVEY TOOL WITHIN
A BOREHOLE

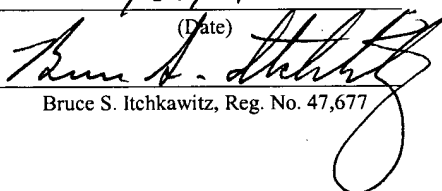
Group Art Unit : Unknown

Certificate of Mailing

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

6/29/04

(Date)


Bruce S. Itchkawitz, Reg. No. 47,677

TRANSMITTAL LETTER

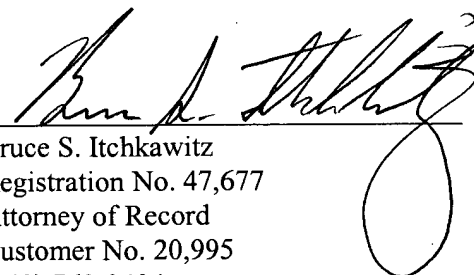
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 listing thirty-nine (39) references, with copies of six (6) references.
- (X) A return prepaid postcard.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.


Bruce S. Itchkawitz
Registration No. 47,677
Attorney of Record
Customer No. 20,995
(949) 760-0404

**INFORMATION DISCLOSURE STATEMENT**

Applicants : Roger Ekseth et al.
App. No. : 10/823,091
Filed : April 13, 2004
For : SYSTEM AND METHOD FOR USING
MICROGYROS TO MEASURE THE
ORIENTATION OF A SURVEY TOOL
WITHIN A BOREHOLE
Group Art Unit : Unknown

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

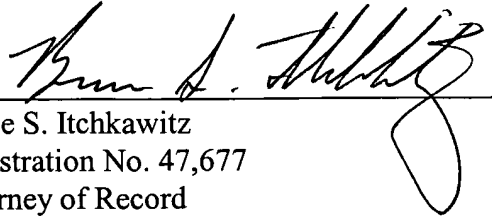
Enclosed is form PTO-1449 listing thirty-nine (39) references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references, if listed, are enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 6/28/04

By: 
Bruce S. Itchkawitz
Registration No. 47,677
Attorney of Record
Customer No. 20,995
(949) 760-0404

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
GYRO.008AAPPLICATION NO.
10/823,091INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANTS
Roger Ekseth et al.FILING DATE
April 13, 2004GROUP
Unknown

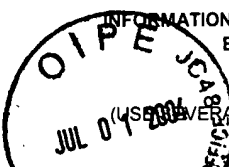
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	4,537,067	08/27/85	Sharp et al.			
	2	4,909,336	03/20/90	Brown et al.			
	3	4,987,684	01/29/91	Andreas et al.			
	4	5,099,927	03/31/92	Gibson et al.			
	5	5,432,699	07/11/95	Hache et al.			
	6	5,635,638	06/03/97	Geen et al.			
	7	5,635,640	06/03/97	Geen et al.			
	8	5,657,547	08/19/97	Uttecht et al.			
	9	5,806,195	09/15/98	Uttecht et al.			
	10	5,812,068	09/22/98	Wisler et al.			
	11	5,821,414	10/13/98	Noy et al.			
	12	5,842,149	11/24/98	Harrell et al.			
	13	5,912,524	06/15/99	Ohnishi et al.			
	14	6,021,377	02/01/00	Dubinsky et al.			
	15	6,044,706	04/04/00	Roh			
	16	6,089,089	07/18/00	Hsu			
	17	6,122,961	09/26/00	Geen et al.			
	18	6,145,378	11/14/00	MacRobbie et al.			
	19	6,173,773	01/16/01	Almaguer et al.			
	20	6,192,748	02/27/01	Miller			
	21	6,206,108 B1	03/27/01	MacDonald et al.			
	22	6,257,356 B1	07/10/01	Wassell			
	23	6,267,185 B1	07/31/01	Mougel et al.			
	24	6,281,618 B1	08/28/01	Ishitoko et al.			
	25	6,315,062 B1	11/13/01	Alft et al.			
	26	6,347,282 B2	02/21/02	Estes et al.			
	27	6,360,601 B1	03/26/02	Challoner et al.			
	28	6,381,858 B1	05/07/02	Shirasaka			

EXAMINER

DATE CONSIDERED

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. GYRO.008A	APPLICATION NO. 10/823,091
 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANTS Roger Ekseth et al.	
		FILING DATE April 13, 2004	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	29	2002/0056201	05/16/02	Dallas et al.			
	30	6,453,239 B1	09/17/02	Shirasaka et al.			
	31	6,484,818 B2	11/26/02	Alft et al.			
	32	6,655,460 B2	12/02/03	Bailey et al.			
	33	6,659,201 B2	12/09/03	Head et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	34	0 646 696 A1	09/13/94	Europe				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	35	$\pm 150^\circ/\text{s}$ Single Chip Yaw Rate Gyro with Signal Conditioning, Analog Devices, ADXRS150, ©2003 Analog Devices, Inc.
	36	$\pm 300^\circ/\text{s}$ Single Chip Yaw Rate Gyro with Signal Conditioning, Analog Devices, ADXRS300.
	37	Geen, J., et al., <i>New iMEMS® Angular-Rate-Sensing Gyroscope</i> , Analog Dialogue, 2003, Vol. 37, No. 3, pp. 1-4.
	38	Teegarden, Darrell, et al., <i>How to Model and Simulate Microgyroscope Systems</i> , IEEE Spectrum, July 1998, Vol. 35, No. 7, pp. 66-75.
	39	Yazdi, N., et al., <i>Micromachined Inertial Sensors</i> , Proc. of the IEEE, August 1998, Vol. 86, No. 8, pp. 1640-1659.

H:\DOCS\BSI\BSI-6058.DOC
062804

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	